

# JVC

# SERVICE MANUAL

CD/CDR MULTIPLE COMPACT DISC RECORDER

## XL-R5000BK

### Supplement

#### Area Suffix

J	-----	U.S.A.
C	-----	Canada
B	-----	U.K.
E	---	Continental Europe
EN	---	Northern Europe

With sincere apology for that the following items have been left off the previously issued Service Manual (No. 20824) for the XL-R5000BK, we issue this supplement to add those items to the Service Manual.

1. CD-R unit's tray and belt replacement procedure
2. XL-R5000BK check-up procedure
3. Power supply section block diagram

## ■ CDR Unit Tray Replacement Procedure

Refer to the separate figure.

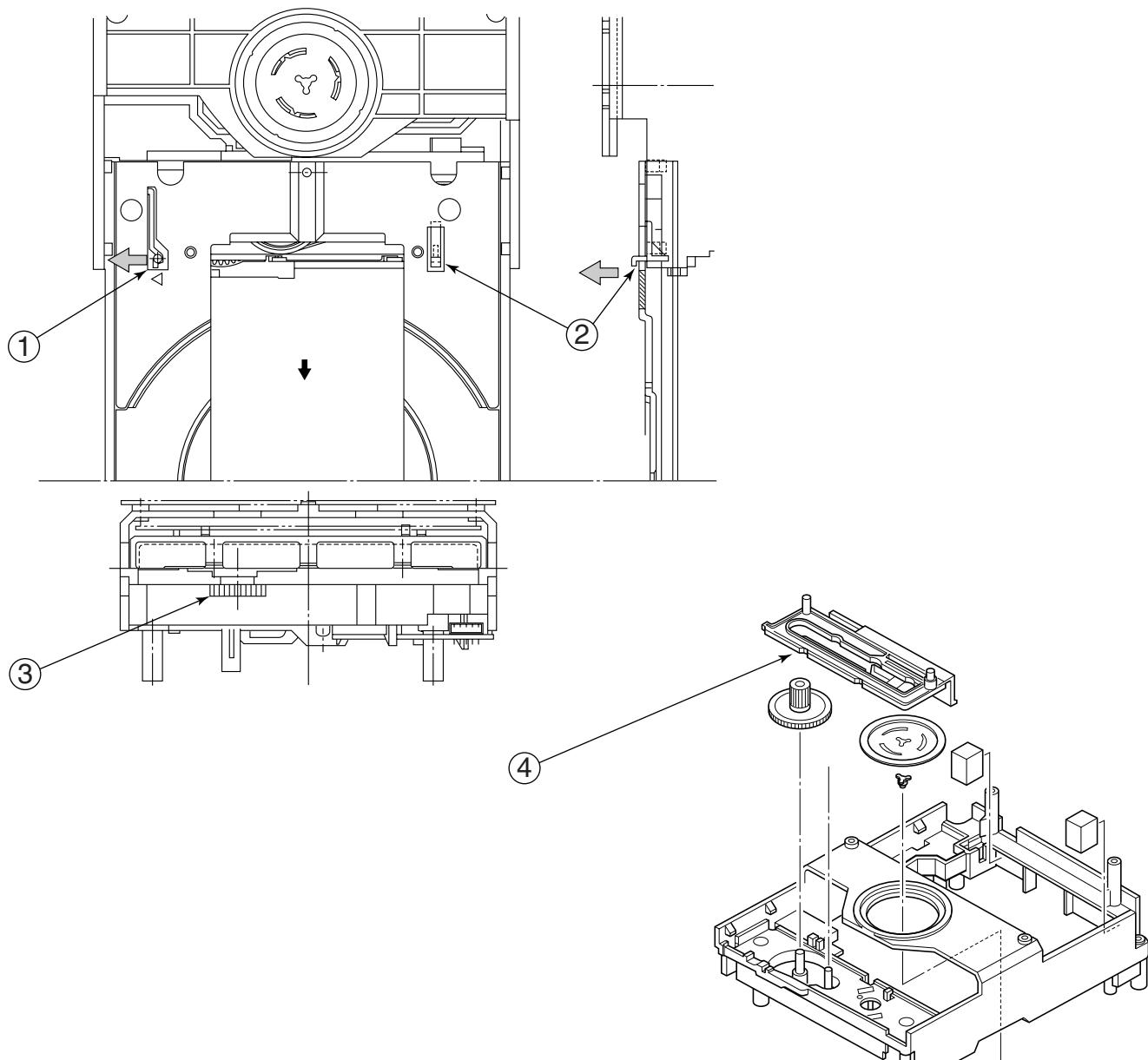
When removing the tray:

1. Make sure that the pickup is located in the innermost position (usual position).  
If the pickup is out of the innermost position, locate it in the innermost position with care not to touch the lens.
2. While turning the gear drive (③ in the figure) clockwise to lower the mechanism, draw the tray towards the front side.  
Pull out the tray to the full extent (as shown in the figure).
3. Press the lever (① in the figure) in the direction of the arrow (leftward).
4. Holding the lever (①) in the status of the above step ③, raise the lever (② in the figure) in the direction of the arrow (upward).
5. Pull the tray out of the CDR unit with the levers held in the above-mentioned status.

When setting a new tray:

- ① Slide the slide gear (④ in the figure) rightwards to lower the mechanism before inserting a new tray.
- ② Insert a new tray into the CDR unit front the front side.
- ③ Going through the procedure for removing the tray in the reverse order, turn the gear drive counterclockwise to raise the mechanism upwards and check to see if it is in the topmost position.

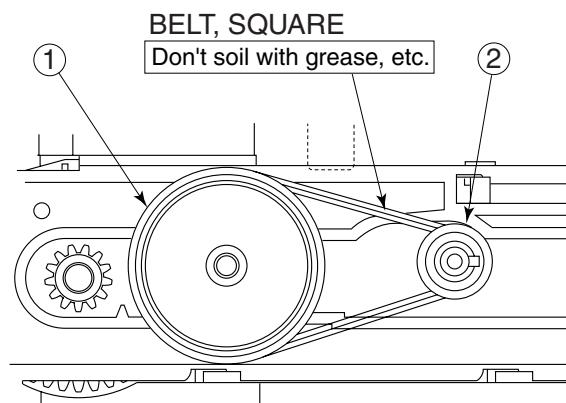
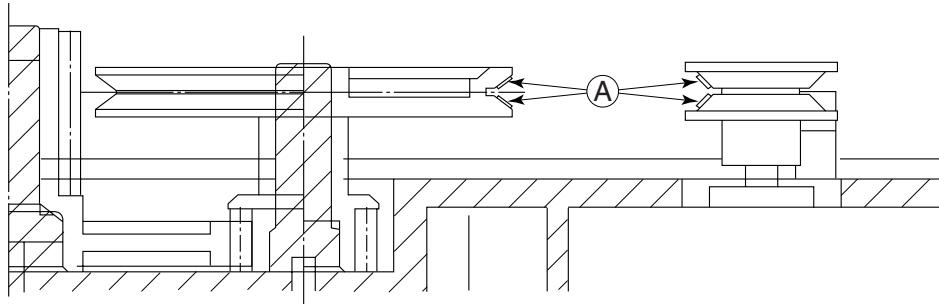
That is all for the tray replacement procedure.



## ■ CRD-Unit Belt Replacement Procedure

Refer to the figure below.

1. Remove the tray following to the tray removal procedure.
2. Remove the belt with the tweezers or the like.
3. Wipe over the belt creep (Ⓐ in the figure) of the pulley gear (① in the figure) and pulley motor (② in the figure) with alcohol.
4. Engage a new belt with ① first and ② next by use of tweezers or the like.
5. Make sure that the belt is neither twisted nor soiled with grease, etc.
6. Restore the tray to the original position.



## ■ How to check for 3CD and CD-R

### 1. Special tools and CDR & CDRW Disc.

- CD TEST DISC:CTS-1000
- CD-R for Audio
- CD-RW for Audio

Note: 1. Be sure to use general audio CD-R and CD-RW disks available on the market for this set.  
 2. This set is incapable of playing any CD-R or CD-RW disk for the personal computer.  
 3. The CD-RW disk can be played only by the player compatible with the CD-RW disk.  
 4. The CD-R disk that has not been finalized after writing can be played by the CD-R unit only.

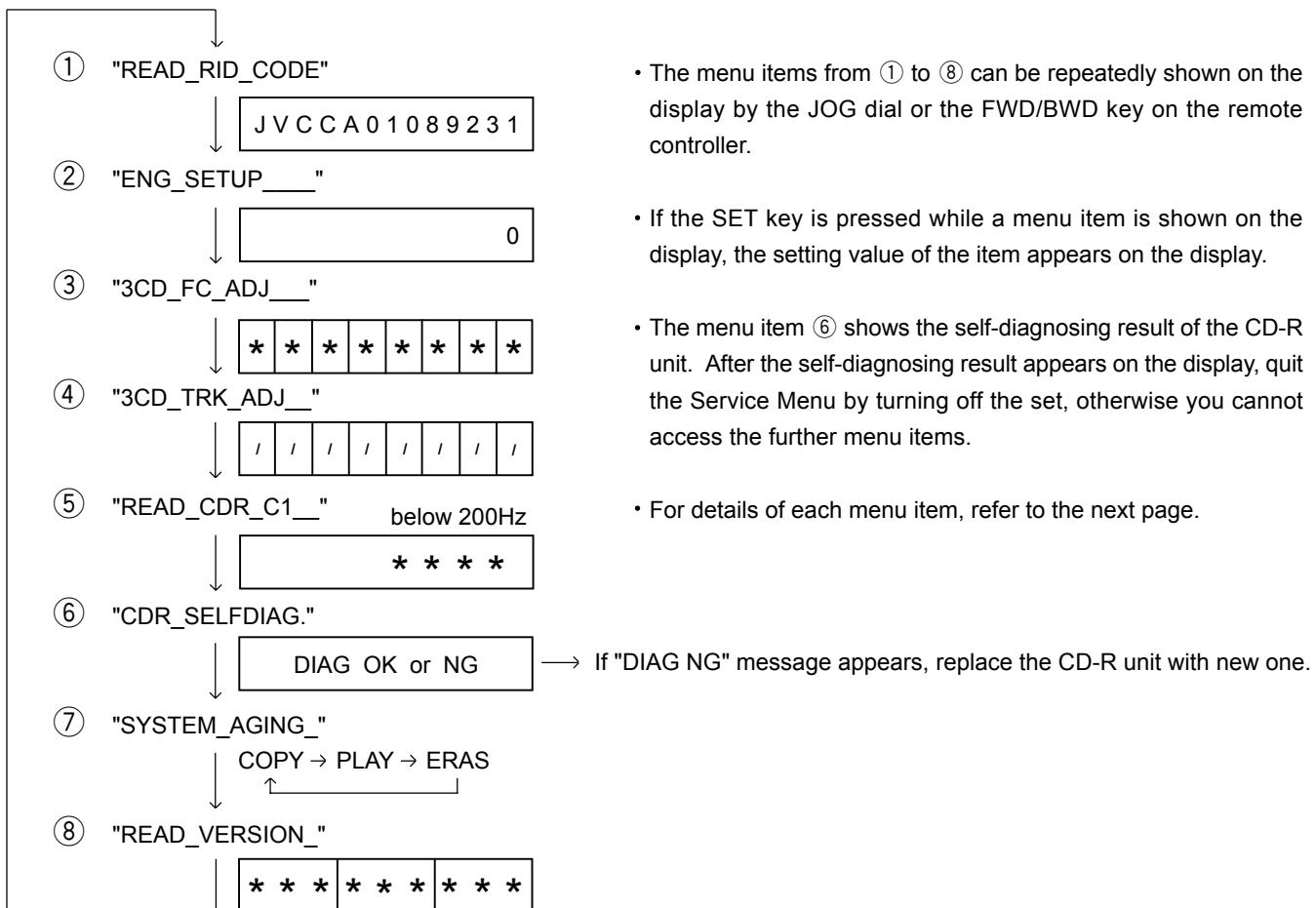
## ■ How to check up the CD-R unit whether it is normal (OK) or defective (NG).

\* For checking up the CD-R unit for normal or abnormal status, open the Service Menu.

### 1. How to open the Service Menu.

- 1) Press both the DIGITAL key and POWER key simultaneously.
- 2) Press the MENU key.

The following menu items appear one after another on the FL Display.



## ■ Explanation of Service menu

### 1. READ RID CODE

When this menu item is executed, the RID code is read out and it is shown by the FL tube for 5 seconds. This selection is automatically cleared after the 5-second display.

Example of display: JVCCA01089231

Manufacturer code: JVC

Type code: CA01

Unique No.: 089231

### 2. ENG SETUP

Explanation of this item is omitted because of the confidential function.

### 3. 3CD FC ADJ (3CD focus automatic adjustment value readout) (000000F7)

When this menu item is executed, the 3CD unit focus automatic adjustment value (hexadecimal number in six figures) is displayed by the FL tube for 3 seconds. This selection is automatically cleared after the 3-second display. When the set fails in reading out the 3CD unit focus automatic adjustment value, a message "NG" is shown for the value to be read.

### 4. 3CD TRK ADJ (3CD tracking automatic adjustment value readout) (000000FA)

When this menu item is executed, the 3CD unit tracking automatic adjustment value (hexadecimal number in six figures) is displayed by the FL tube for 3 seconds. This selection is automatically cleared after the 3-second display. When the set fails in reading out the 3CD unit tracking automatic adjustment value, a message "NG" is shown for the value to be read.

### 5. READ CDR C1 (CDR C1 error rate readout)

When this menu item is executed, the CDR is set to the play mode with display of the C1 error rate. To escape from this menu item, switch off the set.

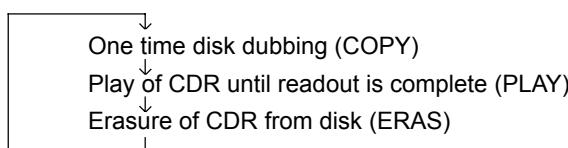
### 6. CDR SELFdiag (CDR self-diagnosing)

When this menu item is executed, the set carries out self-diagnosing of the CDR. When nothing wrong is detected by the self-diagnosis, a message "DIAG OK" appears on the display. To quit this self-diagnosing mode, switch off the set.

### 7. SYSTEM AGING (Running operation)

When this menu item is executed, the set automatically starts the following running operation. For executing this item, it is required to set a blank CD-RW disk in the CDR beforehand. The time required for a running operation or number of times of pick movement can be controlled by changing the data written on the disc set on the current tray of the 3CD.

(When the running operation starts without disk, "000CD 1ACOPY" is shown on the display.)



If the set receives an effective input from the key, remote controller or DCS, it immediately stops the running operation. If the running operation is suspended by the STOP key or because of an error, the following message is continuously displayed until the set is switched off.

Classification of the unit in which an error breaks out	Error code (hexadecimal number in two figures)	Operation executed last	Number of execution times (4-digits decimal number)
CDorCDR	000CD	COPYorPLAYorERAS	1ACOPY

### 8. READ VERSION (Version number readout)

When this menu item is executed, version numbers of the syscon, CDR farm and 3CD farm are shown by the FL tube for 5 seconds. This selection is automatically cleared after the 5-second display.

Syscon version No. (in 3 digits)	CDR farm version No. (in 3 digits)	3CD farm version No. (in 3 digits)

Each version No. is set apart from the other(s) by a space.

A 3-digit number is shown as \*.\*. The last two digits are shown in the decimal places.

When the set fails in reading out a version number, "000" (three zeros) is shown for the version number to be read.

## ■ Check mode Method

### 1. Check Mode

The Check Mode is prepared for checking timer operation and display with the FL tube.

### 2. Check mode setup method

Setup: In the status that the set is turned off, press the POWER key together with the DISPLAY key to turn on the set.

Cancel: Shift the mode to the backup mode, or press the POWER key together with the DISPLAY key to turn on the set again for resetting.

### 3. Operation

The set is switched on and all segments of the FL tube go on. Adjust the clock so that its indication gains one minute per one real second.

If the set is operated anyhow other than for check mode canceling, the FL indication reverts to the normal status. After that, the set continues normal operation except the speeded up clock operation.

## ■ Clearing all settings

This operation clears all of settings and restore them to the default values, for example, settings of the menu items are restored to the respective default values or registered programs are cleared by this operation. In short, this operation restores every setting to the initial status on shipment.

- In the status that the set is switched off, press the POWER key together with the LINE key to turn on the set.

### Items subject to this clearing/resetting operation

Clearance of clock setting AM12:00

Clearance of timer setting OFF

Clearance of program for playing back programs OFF

Clearance of registered listening edit and program edit programs OFF

Switching off repeat setting OFF

Clearance of child lock Free

Setting the current unit for 3 CD's and DNO (DISK NO) for the tray 1

Resetting the 3CD play mode to the normal mode

Switching off pitch control setting OFF

Setting the recording source selection to 3CD digital recording

Setting the dubbing speed double

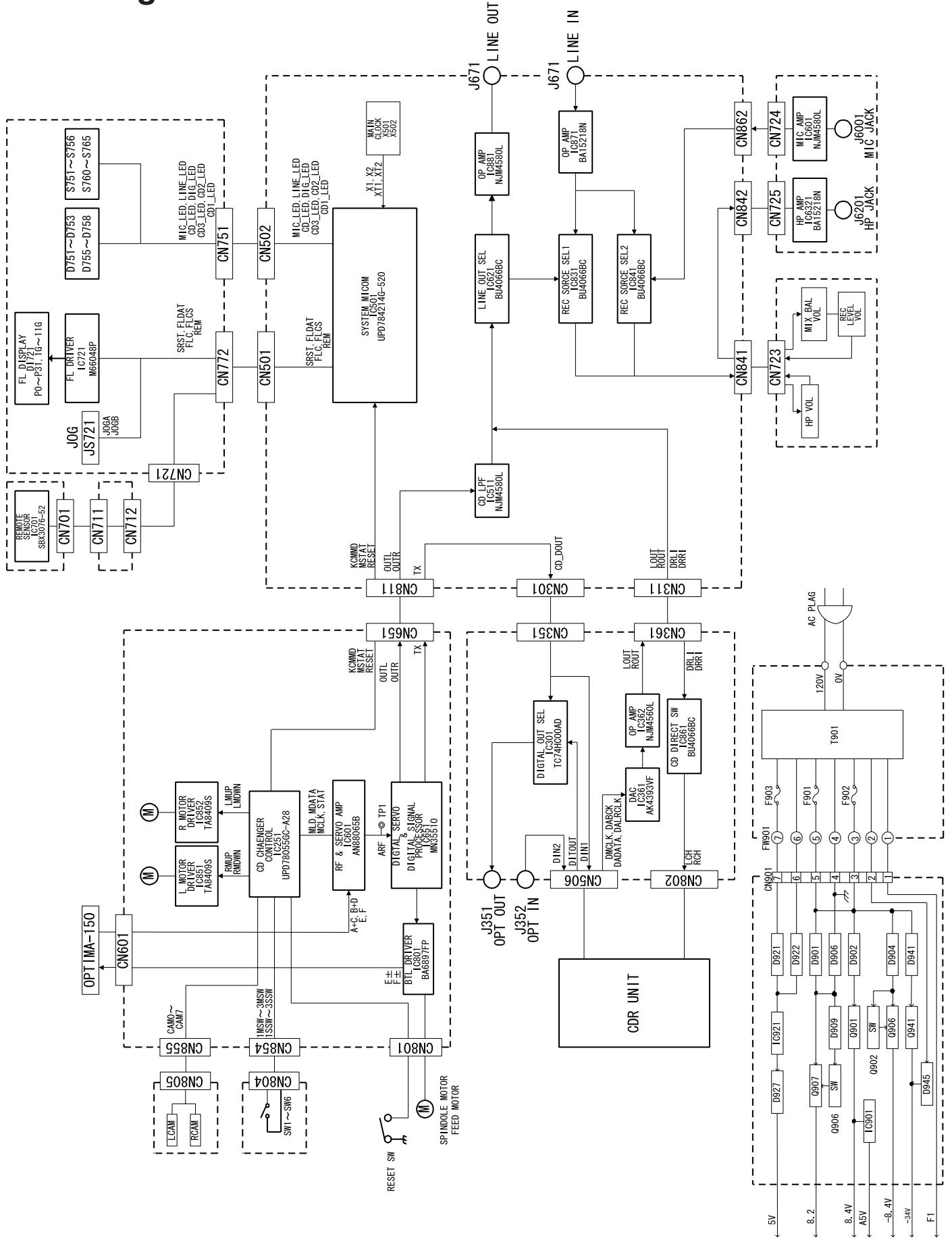
Switching on the AUTO TRK setting OFF

Switching on the TRK space OFF

Switching on the FS CON setting OFF

Switching on the DIG (Digital) IN SYNC setting OFF

## Block diagram



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